

CLAIMS

1. A message compression method comprising the steps
5 of:
pre-placing a message template at a far end
communication system of a communication link;
transmitting by a near end communication system a
compressed message related to the message template; and
10 producing at the far end communication system an
uncompressed message.
2. A message compression method as claimed in claim
1, wherein the step of producing includes the step of
15 combining the message template and the compressed
message.
3. A message compression method as claimed in claim
2, wherein the step of combining includes the step of
20 determining by the far end communication system that
the compressed message is a request for a message
template.
4. A message compression method as claimed in claim
25 3, wherein the step of combining further includes the
step of obtaining a template index from the compressed
message to indicate an identity of a requested message
template.
- 30 5. A message compression method as claimed in claim
4, wherein the step of combining further includes the
step of determining by the far end communication system
whether the compressed message indicates whether
additional parameters are present.

6. A message compression method as claimed in claim 5, wherein the step of combining further includes the steps of:

if the additional parameters are present:

5 removing each additional parameter from the compressed message; and

inserting each additional parameter into the message template.

10 7. A message compression method as claimed in claim 6, wherein there is further included a step of iterating the steps of removing and inserting for each additional parameter.

15 8. A message compression method as claimed in claim 1, wherein the step of transmitting includes the step of generating the compressed message by a template processing function at the near end communication system.

20 9. A message compression method as claimed in claim 8, wherein the step of generating includes the steps of:

25 providing a service request message identifier within the compressed message;

providing a template on/off flag within the compressed message; and

providing a template index within the compressed message.

30 10. A message compression method as claimed in claim 9, wherein the step of generating further includes the steps of:

35 providing an additional parameters are present flag within the compressed message; and

providing additional parameters within the compressed message.

11. A message compression method as claimed in claim
5 1, wherein the step of pre-placing includes the step of transmitting an uncompressed message by the near end communication system.
12. A message compression method as claimed in claim
10 11, wherein the step of pre-placing includes the step of storing the uncompressed message as a template by a template processing function of the far end communication system.
13. A message compression method as claimed in claim
15 1, wherein the message compression method is provided within a Session Initiation Protocol communication system.
14. A message compression method as claimed in claim
20 1, wherein the near end communication system and far end communication system are radio frequency communication systems.
15. A message compression method as claimed in claim
25 1, wherein:
the near end communication system comprises a client SIP application or a server SIP application; and
the far end communication system comprises a
30 client SIP application or a server SIP application.

16. A SIP message compression method for a mobile unit comprising the steps of:

- pre-placing a message template at a server;
- transmitting by the mobile unit a compressed
- 5 message over an RF link, the compressed message related to the message template; and
- combining by the server the compressed message and the message template to produce an uncompressed message.

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17. The SIP message compression method as claimed in claim 16, wherein the step of pre-placing includes the steps of:

- transmitting by the mobile unit the message
- 15 template; and
- storing the message template by a template processing function of the server.

18. The SIP message compression method as claimed in claim 16, wherein the step of transmitting includes the step of generating the compressed message by a template processing function of the mobile unit.

19. The SIP message compression method as claimed in claim 18, wherein the step of generating includes the steps of:

- providing a service request message identifier within the compressed message;
- providing a template on/off flag within the
- 30 compressed message; and
- providing a template index within the compressed message.

20. The SIP message compression method as claimed in claim 19, wherein the step of generating further includes the steps of:

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providing an additional parameters are present
flag within the compressed message; and

providing additional parameters within the
compressed message.

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21. The SIP message compression method as claimed in
claim 17, wherein the step of combining includes the
steps of:

determining by the template processing function of
the server whether a compressed message is received;
and

determining by the template processing function of
the server which message template is related to the
compressed message.

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22. The SIP message compression method as claimed in
claim 21, wherein there is further included the steps
of:

removing parameters from the compressed message by
the template processing function of the server; and

inserting the removed parameters into the message
template by the template processing function of the
server.

23. A SIP compressed message data structure
comprising:

a service request message identifier data field;

a template on/off data field;

a template index data field; and

an additional parameters are present data field.

24. The SIP compressed message data structure as
claimed in claim 23, wherein, if the additional
parameters are present data field is set to a first
value, an additional parameters data field is included.

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